Candidate's Name: .....

Signature: .....

Random No.						Personal No.		

(Do not write your School/ Centre Name or Number anywhere on this Booklet.)

545/2
CHEMISTRY
Paper 2
(Practical)
Oct./Nov. 2024
2 hours

UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

CHEMISTRY

Paper 2
(Practical)

2 hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of **one compulsory** *examination item.*

Answers to this item are to be written in the spaces provided in this booklet. Use **blue** *or* **black** *ink. Any work done in pencil* **except** *drawings and graph will* **not** *be scored.*

All *working* **must** *be clearly shown. Graph paper will be provided.*

Mathematical tables and silent non-programmable scientific calculators may be used.

You are **not** *allowed to use reference books.*

Candidates are advised to carefully read the item, make sure they have all the apparatus and chemicals they may need and then **plan** *appropriately before starting.*

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Turn over

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ITEM

A sports Club ordered for supply of chemical compounds to be used for making *cold packs*, which can be used to relieve pains of injured players. Normally, *cold packs* work on the principle of a substance mixing instantly with water, resulting into a cold solution, which can be applied onto an injured body part, thus relieving pain. A good *cold pack* is one that becomes cold in a short time.

Two chemical compounds were delivered to the Club management and they want to select the most effective chemical compound. However they are stuck as to how to determine the most effective one. You have been contacted for help.

You are provided with the following: -
Equal masses of solids, **X** and **Q**, which are compounds that were supplied to the Sports Club management.

Task:
As a student who has studied Chemistry, use the materials availed to you to;

(a) design an experiment you can carry out to help the Club management.
(*Your design should include; aim, hypothesis, variables, apparatus and materials, procedure, risks and their mitigations.*)

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(b) carry out the experiment and record your results.
(*A minimum of six readings required.*)

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(c) analyse your results and advise the Club management accordingly.

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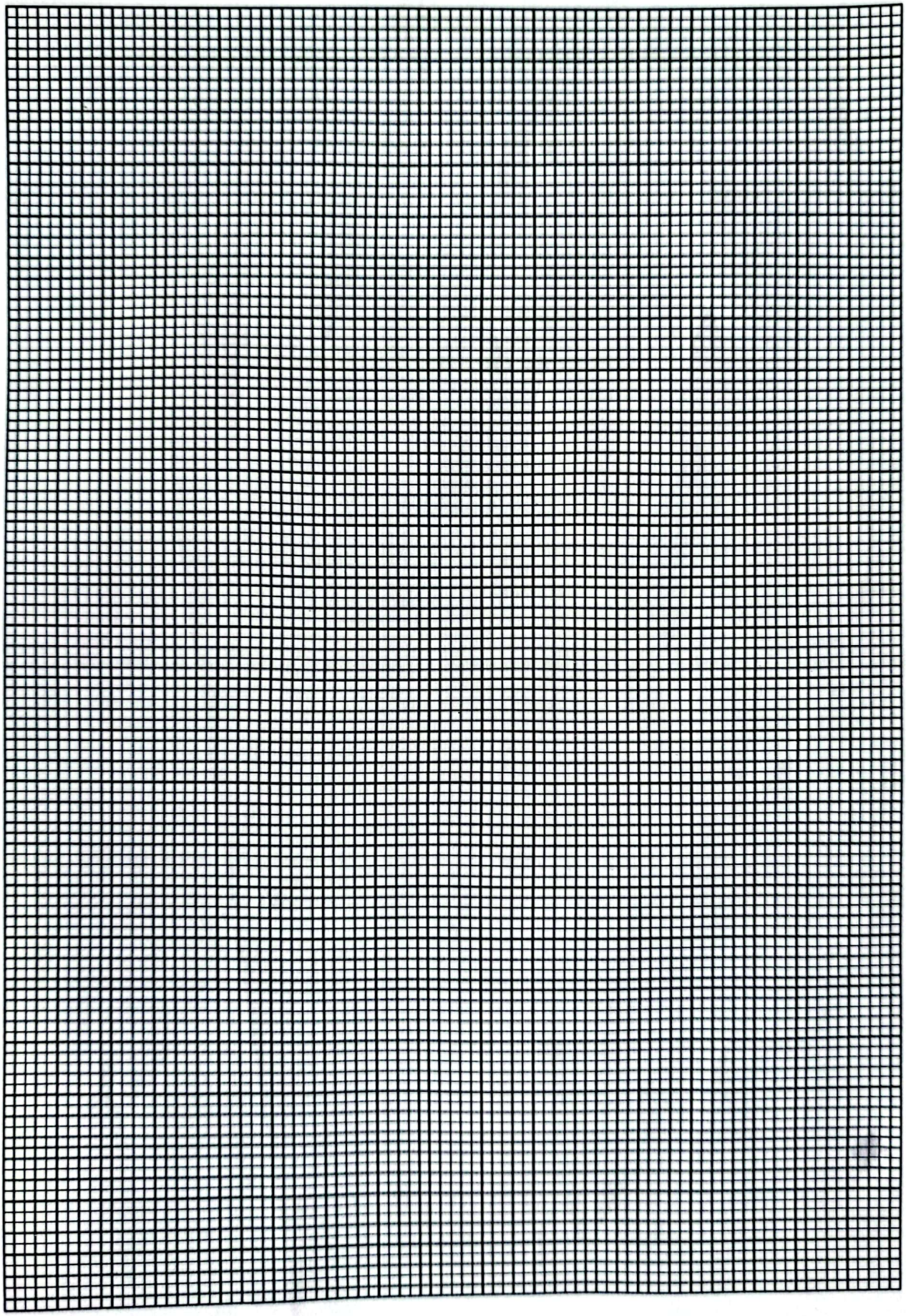

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UGANDA NATIONAL EXAMINATIONS BOARD
UGANDA CERTIFICATE OF EDUCATION
OCTOBER – NOVEMBER, 2024

UCE

Do not write in this margin

Candidate's Name: .....

Signature: .....

Random No.						
Personal Number						

Subject: ..... **Paper Code** ...../.....

FOR SCORERS' USE ONLY

Item _____

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